

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY			
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0749			
HCAI Special Seismic Certification Preapproval (OSP)				
Type: X New Renewal				
Manufacturer Information				
Manufacturer: NXT Power				
Manufacturer's Technical Representative: Cherian Jose				
Mailing Address: 7051 W. Wilson Ave, Norridge, IL 60706				
Telephone: (312) 310-0894 Email: cherian.jose@nxtp	ower.com			
EOR CODE CO.				
Product Information	Ø,			
Product Name: UPS and Batteries	E .			
Product Type: UPS	12			
Product Model Number: See Attachment	4 m			
General Description: Uninterruptible Power Supply, 120VAC 50/60Hz, with	isolation transformer and internal batteries.			
Mounting Description: Rigid, Floor Mounted				
Tested Seismic Enhancements: None DATE: 10/03/2022	6			
Applicant Information	4.			
Applicant Company Name: Dynamic Certification Laboratories				
Contact Person: Kelly Laplace				
Mailing Address: 1315 Greg Pkwy # 109, Sparks, NV 89431				
Telephone: (775) 358-5085 Email: kelly@shaketest.co	om			





Title: Business Manager

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

10/03/2022 OSP-0749 Page 1 of 11



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)							
Company Name: THE VMC GROUP							
Name: Kenneth Tarlow California License Number: S2851							
Mailing Address: 980 9th Street, 16th Floor, Sacramento, CA 95814							
elephone: (832) 627-2214 Email: ken.tarlow@thevmcgroup.com							
Certification Method							
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3							
Other (Please Specify):							
EOR CODE CO.							
Testing Laboratory							
Company Name: DYNAMIC CERTIFICATION LABORATORY (DCL)							
Contact Person: Kelly Laplace							
Mailing Address: 1315 Greg St., Ste 109, Sparks NV 89431							
Telephone: (775) 358-5085 Email: Kelly@shaketest.com							
DATE: 10/03/2022							





10/03/2022 OSP-0749 Page 2 of 11



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Seismic Parameters	
Design Basis of Equipment or Components (Fp/Wp) =	1.44 (Sds 2.0g, z/h=1); 1.13 (Sds 2.5g, z/h=0)

SDS (Design spectral response acceleration at short period, g) = Sds 2.0g, z/h=1; Sds 2.5g, z/h=0

ap (Amplification factor) = 1.0

 R_p (Response modification factor) = 2.5

 Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1 and 0

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

HCAI A	proval	(For Office L	Jse Only	- Api	oroval Ex	pires on	10/03/2028
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Date: 10/3/2022 OSP-0749

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: Sps (g) = See Above z/h = See Above

Condition of Approval (if applicable): DATE: 10/03/2022





10/03/2022 OSP-0749 Page 3 of 11

Table 1 - Certified Components

DYNAMIC CERTIFICATION LABORATORIES, LLC

DCL Project Number: 02401-2201

Certified Seismic Level: Sds=2.0, z/h=1.0; Sds=2.5, z/h=0.0
Product Type: Uninterruptable Power Supply (UPS)
Product Line: Integrity Pro, Integrity Max R/T

Mounting Description: Rigid Base Mount with Cam Straps or Metal Band

Туре	Model Number		Max. Dimensions (in)	Max. Weight	Mounting	Unit	
туре	Model Number –	Depth	Width	Height	(lb)	Mounting	Offic
	NPTU600-LM-N	17.9	11.3	9.3	56		Same as UUT-01
	NPTU600-L-N	17.9	11.3	9.3	56		Same as UUT-01
	NPTU800-LM-N	17.9	11.3	9.3	56		Same as UUT-01
Integrity Pro ^{1,2}	NPTU800-L-N	17.9	11.3	9.3	56	Rigid Base Mount with	UUT-01
integrity Pro	NPTU1100-LM-N	20.9	13.3	10.0	96	Cam Straps	Same as UUT-02
	NPTU1100-L-N	20.9	13.3	10.0	96		Same as UUT-02
	NPTU1500-LM-N	20.9	13.3	10.0	96		Same as UUT-02
	NPTU1500-L-N	20.9	13.3	10.0	96		UUT-02
	NPTU800-OR-N	27.5	8.3	17.5	80	51.115	Same as UUT-03
Integrity Max R/T ³	NPTU1100-OR-N	27.5	8.3 SP_C	7/0 17.5	80	Rigid Base Mount with Metal Band	Same as UUT-03
	NPTU1500-OR-N	27.5	8.3	17.5	1 80	ivietai ballu	UUT-03

Notes:

- 1. LM and L products are equivalent in the Integrity Pro line for their subsequent power rating, M is added to nomenclature for marketing purposes.
- 2. NPTU600-LM/L-N and NTPU800-LM/L-N in the Integrity Pro line only have a rating label difference. NPTU1100-LM/L-N and NTPU1500-LM/L-N in the Integrity Pro line only have a rating label difference.
- 3. The units in the Integrity Max R/T line only have a rating label difference.



Table 2 - Certified Options - Nomenclature Chart

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DYNAMIC
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LABORATORIES.LLC

DCL Project Number: 02401-2201

Certified Seismic Level: Sds=2.0, z/h=1.0; Sds=2.5, z/h=0.0

Product Type: Uninterruptable Power Supply (UPS)

Product Line: Integrity Pro, Integrity Max R/T

Example Model Number: ABCD-XXXX-EF/E-G

Allowable Values NPTU	Definition	Unit
NDTH		
NPTU	NXT Power Transformer UPS	UUT-01, UUT-02, UUT-03
600	OR CODE CO	Same as UUT-01
XXXX ^{1,2} 800	Power massured in volt amphores (VA)	UUT-01
1100	Power, measured in voit-amplieres (VA)	Same as UUT-02 or UUT-03
1500		UUT-02, UUT-03
OR	Online Rackmount	UUT-03
L	Line Interactive	UUT-01, UUT-02
M	OSP-0749 Medical	Same as UUT-01 and UUT-02
N	North America	UUT-01, UUT-02, UUT-03
	800 1100 1500 OR L	800 Power, measured in volt-ampheres (VA) 1100 0R Online Rackmount L Line Interactive M Medical

Notes:

- 1. Model with XXXX value of 800 is only equivalent to the 1500 model in the Integrity Max R/T line.
- 2. Models with XXXX value of 1100 are equivalent to the 1500 model for both product lines.
- 3. LM and L products are equivalent in the Integrity Pro line for the subsequent power rating, M is added to nomenclature for marketing purposes.



Table 3 - Certified Subcomponents - Integrity Pro Line

DCL Project Number: 02401-2201

Certified Seismic Level: Sds=2.0, z/h=1.0; Sds=2.5, z/h=0.0

Product Type: Uninterruptable Power Supply (UPS)



Product Type: U	ninterruptable Power Supply (Ul	PS)			
	gid Base Mount with Cam Strap	\$			
Widunting Description. 10	gia base Mount with cam strap.	Enclosures			
Manufacturer Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
NPTU800-L-N-ENC	Ablerex	16.7" L x 7.1" W x 9.3" H, NEMA 1	Carbon Steel	10.7	UUT-01
NPTU1500-L-N-ENC	Ablerex	19.7" L x 8.7" W x 9.8" H, NEMA 1	Carbon Steel	13.9	UUT-02
			70		·
		Boards			
Manufacturer Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
800 PRO Power PCBA	Ablerex	Main power 390 x 150 x 2.0 mm	94-V0 Fiberglass	1.8	UUT-01
1500 PRO Power PCBA	Ablerex	Main power PCBA	94-V0 Fiberglass	2.1	UUT-02
		05P-07	49		
		Fans	111		
Manufacturer Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
DFB802512H	Suzhou Kingmot	80 x 25 mm	Plastic, Copper, Lamination Steel	<0.1	UUT-01
YDH8025B12	Shenzhen YCC Fan	80 x 25 mm	Plastic, Copper, Lamination Steel	<0.1	UUT-02
DFS602012M	YoungLin	60 x 20 mm	Plastic, Copper, Lamination Steel	<0.1	UUT-02
•		O DATE: 10/02/	2022		•
	1	Fuses, Breakers, Trips, and A	Accessories		
Manufacturer Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
UDE-A	Conquer	4A, 500V	Carbon, Copper, Epoxy	<0.1	UUT-01
L1-15A	Topstone	15A, 250V	Plastic and Tinned Copper	<0.1	UUT-01
Type 257	Littelfuse	32A, 40V	Plastic and Tinned Copper	<0.1	UUT-01
MST 002	Conquer	2A, 250V	Ceramic, Copper	<0.1	UUT-01, UUT-
MST 004	Conquer	4A, 250V	Ceramic, Copper	<0.1	UUT-02
L1-20A	Topstone	20A, 250V	Plastic, Tinned Copper	<0.1	UUT-02
Type 314	Littelfuse	30A, 125V	Ceramic, Glass, Tinned Copper	<0.1	UUT-02
		Batteries and Battery Acc	essories		
Manufacturer Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
HR1234	CSB	12V 34W VRLA Battery	ABS, Lead, Acid	5.8	UUT-01, UUT-
•					
		Transformers			
Manufacturer Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
TX1 800	Ablerex	Output Isolation	Silicon Steel, Copper, Polyethylene Bobbin	25.6	UUT-01
TX1 1500	Ablerex	Output Isolation	Silicon Steel, Copper, Polyethylene Bobbin	47.2	UUT-02
		Display			
Manufacturer Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
PC-540	Chi Mei	180 x 25 x 232 mm	94-V0 Fiberglass and LCD	<0.1	UUT-01, UUT-

Table 4 - Certified Subcomponents - Integrity Max R/T Line

DCL Project Number: 02401-2201

Certified Seismic Level: Sds=2.0, z/h=1.0; Sds=2.5, z/h=0.0

Product Type: Uninterruptable Power Supply (UPS



**	nterruptable Power Supply (U	JPS)			
Product Line: Into	egrity Max K/ I id Base Mount with Metal Bar	nd			
mounting Description: We		Enclosures			
Manufacturer Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
NPTU1500-OR-N-ENC	Ablerex	26.6" L x 3.3" W x 17.3" H, NEMA 1	Carbon Steel	15.8	UUT-03
L		FORCOBL	-04		
		Boards	7/1		
Manufacturer Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
1500 RT Power PCBA	Ablerex	Main power 320 x 235 x2.0 mm	94-V0 Fiberglass	8.3	UUT-0
1500 RT Filter PCBA	Ablerex	Filter PCB 102x60x2.0 mm	94-V0 Fiberglass	0.3	UUT-0
·		OSP _{Fans} 749			•
	(Fans 43			
Manufacturer Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
DFB802512H	Suzhou Kingmot	80x25mm	Plastic, Copper, Lamination Steel	<0.1	UUT-0
		BY: Monammad R			
		Fuses, Breakers, Trips, and	Accessories		
Manufacturer Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
L1-20A	Topstone	20A, 250V ()/()3/2(Plastic, Tinned copper	<0.1	UUT-0
ADA	Conquer	20A, 250V	Ceramic, Plated brass	<0.1	UUT-0
MST 003	Conquer	3A, 250V	Glass, Tinned copper	<0.1	UUT-0
Type 314	Littelfuse	30A, 120V	Ceramic, Plated brass	<0.1	UUT-0
		Batteries and Battery Acc			
Manufacturer Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
NPW45-12	Yuasa	12V, 45W, VRLA Battery	ABS, Lead, Acid	5.7	UUT-0
HR12134	CSB	12V, 34W, VRLA Battery	ABS, Lead, Acid	5.8	UUT-0
		T			
		Transformers			1
Manufacturer Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
TX1 1500OL	Ablerex	Output Isolation	Silicon Steel, Copper, Polyethylene Bobbin	45.4	UUT-03
		Display			
Manufacturer Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
PC-540	Chi Mei	180 x 25 mm LCD	94-V0 Fiberglass and LCD	0.5	UUT-03

Table 5 - Tested Units



DCL Project Number: 02401-2201

Certified Seismic Level: Sds=2.0, z/h=1.0; Sds=2.5, z/h=0.0

Product Type: Uninterruptable Power Supply (UPS)

Product Line: Integrity Pro, Integrity Max R/T

Mounting Description: Rigid Base Mount with Cam Straps or Metal Band

Model Number		Woight (lb)	Unit		
Woder Number	Depth	Width	Height	Weight (lb)	Ollit
NPTU800-L-N	17.9	OSP13749	9.3	56	UUT-01
NPTU1500-L-N	20.9	13.3	10.0	96	UUT-02
NPTU1500-OR-N	27.5	/· Mohammad Karim	17.5	80	UUT-03



UUT-01 UNIT UNDER TEST (UUT) Summary Sheet



DCL Project Number: 02401-2201

NXT Power Manufacturer: Product Line: **Integrity Pro** Model Number: NPTU800-L-N

Product Construction Summary: Powder Coated Carbon Steel

Options / Component Summary:

Uninterruptible Power Supply (UPS) with display, fan, fuses, overload protectors, batteries, cam straps, transformer, and a rigid mounting bracket.

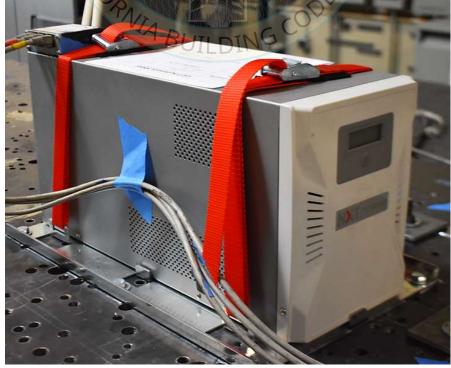
Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

			וטט	Propertion	es			
Operating Weight		Dimensi	ons (inche	S) DE		Lowest Natural Frequency (Hz)		
(lb)	Depth	Wi	dth	H	eight	Front-Back	Side-Side	Vertical
56	17.9	11	11.3		9.3	29.0	>33.3	>33.3
	4		Seismic	Test Parai	neters			-
Building Code	Test Criteria	Sds (g)	z/h	Ip	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2022	ICC-ES AC156	2.00	1.05	P-074	19 2 20	2.40	1.67	0.67
CBC 2022	ICC-E3 AC150	2.50	0.0	0.0 1.5 3.20		3.20		0.07

Unit Mounting Description:

Unit Mounting Description:

UUT-01 was rigidly base-mounted to the steel shake table interface plate with (6) 3/8" grade 5 bolts and washers. The UPS unit was attached to the rigid mounting bracket (Part 001-00089-01-FNL) with (2) cam straps (Part 018-00076). The rigid mounting bracket was made with 0.1" thick steel having a width of 11.3" and depth of 17.9" while featuring 0.8" tall flanges along the sides in the Y-direction. Both cam straps had a width of 1", length of 87", utility polyester construction, breaking strength of 3,585 pounds, and were spaced 12.8" in the Y-direction. The steel shake table interface plate was attached to the shake table with M12 threaded rods.



Overall view of UUT-01

UUT-02 UNIT UNDER TEST (UUT) Summary Sheet



DCL Project Number: 02401-2201

Manufacturer: NXT Power

Product Line: Integrity Pro

Model Number: NPTU1500-L-N

Product Construction Summary: Powder Coated Carbon Steel

Options / Component Summary:

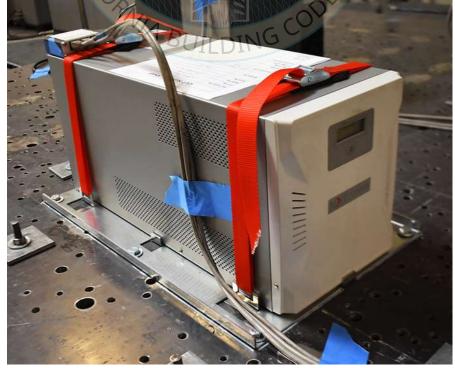
Uninterruptible Power Supply (UPS) with display, fan, fuses, overload protectors, batteries, CAM straps, transformer, and a rigid mounting bracket.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

			וטט	Propertie	es			
Operating Weight Dimensions (inches) Lowest Natural Frequency (Hz)								ncy (Hz)
(lb)	Depth	Depth Width			eight	Front-Back	Side-Side	Vertical
96	20.9	13	13.3		10.0	22.0	>33.3	>33.3
-	4		Seismic	Test Parar	neters			
Building Code	Test Criteria	Sds (g)	z/h	Ip	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2022	ICC-ES AC156	2.00	1.05	P-0.74	19 3.20	2.40	1.67	0.67
CBC 2022 ICC-ES	ICC-L3 ACI30	2.50	0.0	1.5	3.20	2,401	1.07	0.07

Unit Mounting Description:

UUT-02 was rigidly base-mounted to the steel shake table interface plate with (6) 3/8" grade 5 bolts and washers. The UPS unit was attached to the rigid mounting bracket (Part 001-00090-01-FNL) with (2) cam straps (Part 018-00076). The rigid mounting bracket was made with 0.1" thick steel having a width of 13.3" and depth of 20.9" while featuring 0.8" tall flanges along the sides in the Y-direction. Both cam straps had a width of 1", length of 87", utility polyester construction, breaking strength of 3,585 pounds, and were spaced 15.5" in the Y-direction. The steel shake table interface plate was attached to the shake table with M12 threaded rods.



Overall view of UUT-02

UUT-03 UNIT UNDER TEST (UUT) Summary Sheet



DCL Project Number: 02401-2201

Manufacturer: NXT Power

Product Line: Integrity Max R/T

Model Number: NPTU1500-OR-N

Product Construction Summary: Powder Coated Carbon Steel

ICC-ES AC156

Options / Component Summary:

Uninterruptible Power Supply (UPS) with display, fan, fuses, overload protectors, batteries, metal band, transformer, and a rigid mounting bracket.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties Dimensions (inches) Lowest Natural Frequency (Hz) **Operating Weight** (lb) Depth Width Height Front-Back Side-Side Vertical 8.3 17.5 10.0 80 27.5 >33.3 >33.3 Seismic Test Parameters **Building Code Test Criteria** Sds (g) z/h Aflx-H (g) Arig-H (g) Aflx-V (g) Arig-V (g) 2.00 1.0

3.20

2.40

1.67

0.67

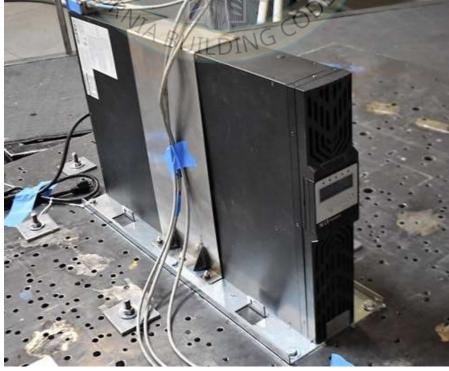
Unit Mounting Description:

CBC 2022

UUT-03 was rigidly base-mounted to the steel shake table interface plate with (6) 3/8" grade 5 bolts and washers. The UPS unit was secured to the rigid mounting bracket (Part 001-00136-01-FNL) with (1) metal band (Part 001-00137-01-FNL) secured with (6) 1/4" grade 5 threaded rods, washers, lock washers, and nuts. The rigid mounting bracket was made with 0.1" thick steel having a width of 8.3" and depth of 27.5" while featuring 0.8" tall flanges along the sides in the Y-direction. The metal band was constructed with 0.1" thick steel while being 5" in width, 8" in depth, and 17.5" in height. The steel shake table interface plate was attached to the shake table with M12 threaded rods.

0.0

2.50



Overall view of UUT-03